Engineering Handbook 7

Section 3.4

COMMUNICATIONS EQUIPMENT SOFTWARE NOTE 6 (for Electronics Technicians)

Maintenance Branch W/OPS12: GSS

SUBJECT : CRS Build 10.0 and VIP Build 3.1 Software Installation Procedures

PURPOSE : This document contains the procedures for installing the Console

Replacement System (CRS) Build 10.0 software and the Voice Improvement Processor (VIP) Build 3.1 software. The tasks necessary for installing the CRS and VIP software are included in

Attachment A.

SITES : All CRS Sites

**AFFECTED** 

EQUIPMENT AFFECTED CRS (B440)

PARTS REQUIRED : W/OPS12 will issue the following parts to each site under the

applicable approved site-specific Request for Change.

(1) CRS Build 10.0 Installation CD

(6) VIP Installation CDs labeled VIP OS Restore 1 through 6

PARTS SUPPLIED : (4 -6) Blank diskettes for saving VIP Version 3.0.1 pre-processor

substitution and local dictionaries.

BY THE SITE (1) Blank DOS-formatted diskette that will contain the SSH Keys.

(This note provides instructions for creating this diskette.)

TOOLS AND : None.

TEST EQUIPMENT

**REQUIRED** 

TIME REQUIRED : 6.0 hours.

EFFECT ON OTHER: None.

**INSTRUCTIONS** 

AUTHORIZATION : The authority for this modification is Request for Change ABXXX.

VERIFICATION : This procedure was tested and verified at National Weather

STATEMENT Service Headquarters (WSH), Silver Spring, MD (SLVM2).

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GENERAL : This procedure contains instructions for replacing the CRS and VIP

software.

TECHNICAL ASSISTANCE For questions or problems pertaining to this software note, please contact Nancy Helderman at (301) 713-0191, x139 or Joel Nathan at

(301) 713-0191, x119.

PROCEDURE : Attachment **A** provides procedures for implementing this modification.

Attachment **B** provides a completed sample of an EMRS report.

REPORTING INSTRUCTIONS

Report the completed modification using the Engineering

Management Reporting System (EMRS) according to the instructions in NWS Instruction 30-2104, Maintenance Documentation, Part 4 and Appendix G. Include the following information on the EMRS report:

a. An equipment code of CRSSA in block 7.

b. A serial number of **001** in block 8.

c. A modification number of S6 in block 17a.

A sample EMRS report is provided as attachment **B**.

Mark Paese Director, Maintenance, Logistics, and Acquisition Division

Attachment **A** - Installation Procedures Attachment **B** - Sample EMRS Report

# Attachment A Installation Procedures

# Attachment A Installation Procedures

#### Overview

#### NOTE:

 No changes have been made to the current CRS Build 9.0.1 operational database. Therefore, you will be able to use your old database with the new Build 10.0 CRS software. After installing the new software, you will be able to restart the CRS application software and run it with the old database. No changes to the database are necessary.

This software note provides instructions for performing the CRS and VIP software upgrades. The installation procedure contains the following ten parts:

- 1. Pre-Installation Procedures
- 2. Backup of VIP Pre-Processor Substitution and Local Dictionaries (requires 4 6 blank diskettes)
- 3. Termination of VIP Build 3.0.1 Application Software and Shutdown of Operating System
- 4. Installation and Startup of VIP Operating System and Build 3.1 Application Software
- 5. Recovery of VIP Pre-Processor Substitution and Local Dictionaries
- 6. Termination of the CRS Build 9.0.1 Application Software
- 7. Installation and Verification of CRS Build 10.0 Application Software and modification to MMI to remove unwanted messages
- 8. Changing of MP, FEP, and LAN Server passwords
- **9.** Installation of SSH keys.
- 10. CRS and VIP Application Startup and Verification

#### NOTE:

- 2. Make sure you have the following before proceeding with the installation procedures:
  - (1) CRS Build 10.0 Installation CD (provided by W/OPS12 in delivery package)
  - (6) VIP Installation CDs labeled VIP OS Restore 1 through 6 (provided by W/OPS23 in delivery package)
  - (2 6) Blank diskettes for saving VIP Version 3.0.1 dictionaries.
  - (1) Blank DOS-formatted diskettes labeled SSH Keys.

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#### PART 1 – PRE-INSTALLATION PROCEDURES

#### 1.1 Scheduling CRS Downtime

- As a conservative estimate, schedule 6 hours (2 hours for VIP installation, 1 hour for CRS installation, and .25 hours for SSH key installation) to perform the software note. This is a conservative estimate. The actual installation time may be less, or it may be more if you encounter problems.
- 2. Notify the public that CRS (NOAA Weather Radio) will be down during this scheduled time for maintenance.
- 3. Before proceeding with the modification, read the entire procedure.
- 4. If you are currently logged into the *CRS Main GUI*, skip to step 7. Otherwise, the *CRS Security Warning* message window displays.
- 5. Click **Acknowledge** and the *CRS Login* screen displays.
- 6. Log into the *CRS Main GUI* as **admin**. The *Security Warning* window redisplays after 30 seconds if a user ID and password are not entered.
- 7. From the CRS Main GUI, click Maintenance and click UNIX Shell.
- 8. Enter the following command at the *UNIX* prompt:

#### ping -s 5MP

Press **Enter**. Every second a message displays that 64 bytes have been received from 5MP. After 1 minute, terminate the test by pressing the **Del** key. A message displays how many data packets were received and transmitted and the percentage of packet loss. If the number of packets received does not match the number transmitted and/or the percentage of packet loss is not zero (0), stop this procedure, and identify and correct the source of the data loss.

- 9. Repeat step 8 for all remaining FEPs and 4BKUP.
- 10. Enter the following command at the **UNIX** prompt to close the *UNIX Shell*:

#### exit

Press Enter

# PART 2 – Backup of VIP Pre-Processor Substitution and Local Dictionaries (4 - 6) blank diskettes are needed)

NOTE: The dictionaries that are saved to diskette in this section will be restored in Part 5 after the new disk image has been installed. All sites will backup and restore the female (Donna) and male (Tom) dictionaries. Only sites with the Spanish license will

backup and restore the Spanish (Javier) dictionaries.

#### 2.1 Backup of Substitution Dictionaries

- 1. Place a blank formatted diskette in the VIP drive. From the main VIP menu, click on the **Pre-Processor** button. This will display the *Pre-Processor "Substitution Dictionary" Manager*.
- 2. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Male Substitution Dictionary <Tom>**.
- 3. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Substitution Dictionary To Floppy Disk**.
- 4. A Dialog Box is displayed that asks: Save the "Tom Substitution" dictionary to floppy disk? Click on the **Yes** button.
- 5. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "tom-sub.d*ic". Click on the **OK** button.
- 6. Remove the **tom-sub.dic** diskette from the drive, label it as **tom-sub.dic**, and keep it in a safe place. It will be used if you need to restore the English Male Substitution Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *tom-sub.dic*.
- Place a blank formatted diskette in the drive. Click on Options, which displays a pull down menu. From the pull down menu, click on English Female Substitution Dictionary <Donna>.
- 8. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Substitution Dictionary To Floppy Disk**.
- 9. A Dialog Box is displayed that asks: Save the "Donna Substitution" dictionary to floppy disk? Click on the **Yes** button.
- 10. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "mara-sub.d*ic". Click on the **OK** button.
- 11. Remove the **mara-sub.dic** diskette from the drive, label it as **mara-sub.dic**, and keep it in a safe place. It will be used if you need to restore the English Female Substitution Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *mara-sub.dic*. If you do not have a Spanish license, skip to step 17.

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- 12. Place a blank formatted diskette in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Spanish Male Substitution Dictionary <Javier>**.
- 13. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Substitution Dictionary To Floppy Disk**.
- 14. A Dialog Box is displayed that asks: Save the "Javier Substitution" dictionary to floppy disk? Click on the **Yes** button.
- 15. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "javier-sub.d*ic". Click on the **OK** button.
- 16. Remove the **javier-sub.dic** diskette from the drive, label it as **javier-sub.dic**, and keep it in a safe place. It will be used if you need to restore the Spanish Male Substitution Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *javier-sub.dic*.
- 17. Click on the **black x** to exit from the *Pre-Processor "Substitution Dictionary" Manager* window.

#### 2.2 Backup of Local Dictionaries

- 1. Place a blank formatted diskette in the drive. From the main VIP menu, click on the **Dict Manager** button. This will display the *Local Dictionary Manager*.
- 2. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Male Dictionary <Tom>**.
- 3. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Dictionary To Floppy Disk**.
- 4. A Dialog Box is displayed that asks: Save the "Tom" dictionary to floppy disk? Click on the **Yes** button.
- 5. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "tom-root.d*ic". Click on the **OK** button.
- 6. Remove the **tom-root.dic** diskette from the drive, label it as **tom-root.dic**, and keep it in a safe place. It will be used if you need to restore the English Male Local Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *tom-root.dic*.
- 7. Place a blank formatted diskette in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Female Dictionary <Donna>**.
- 8. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Dictionary To Floppy Disk**.

- 9. A Dialog Box is displayed that asks: Save the "Donna" dictionary to floppy disk? Click on the **Yes** button.
- 10. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "mara-root.d*ic". Click on the **OK** button.
- 11. Remove the **mara-root.dic** diskette from the drive, label it as **mara-root.dic**, and keep it in a safe place. It will be used if you need to restore the English Female Local Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *mara-root.dic*. If you do not have a Spanish license, skip to step 17.
- 12. Place a blank formatted diskette in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Spanish Male Dictionary <Javier>**.
- 13. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Save Current Dictionary To Floppy Disk**.
- 14. A Dialog Box is displayed that asks: Save the "Javier" dictionary to floppy disk? Click on the **Yes** button.
- 15. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File Transfer Successful! File saved on floppy as: "javier-root.d*ic". Click on the **OK** button.
- 16. Remove the **javier-root.dic** diskette from the drive, label it as **javier-root.dic**, and keep it in a safe place. It will be used if you need to restore the Spanish Male Local Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *javier-root.dic*.
- 17. Click on the **black x** to exit from the *Pre-Processor " Dictionary" Manager* window.

## PART 3 – TERMINATION OF VIP BUILD 3.0.1 APPLICATION SOFTWARE AND SHUTDOWN OF OPERATING SYSTEM

#### 3.1 Terminating the VIP Application

- 1. If the VIP application is running (bottom of the main VIP menu displays Running on a green background), click **Stop**. If the VIP application is not running, skip to Section 3.2.
- 2. The bottom of the main *VIP menu* displays *Stopped* on a red background. The VIP application is stopped.

#### 3.2 Shutting down the VIP Operating System

- 1. Click **File** in the upper left area of the main *VIP* menu.
- Click System Shutdown.
- 3. A dialogue box displays asking if you want to shut down the VIP system. Click **Yes**. After a short time, the VIP computer shuts down.

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# PART 4 – INSTALLATION AND STARTUP OF VIP OPERATING SYSTEM AND BUILD 3.1 APPLICATION SOFTWARE

NOTE:

- 1. This procedure will take about 60 minutes to complete.
- 2. The hard drive image includes both the OS and the VIP Build 3.1 application. To restore the hard drive image, use the VIP OS Restore the new VIP OS Restore CDs numbered 1 through 6. The old VIP OS Restore diskettes numbered 1 through 3 are no longer necessary. VIP OS Restore diskette #4 will remain as the bootable diskette used if the VIP is unable to boot from the hard drive. Upon successful restoration of the hard drive image, store the new VIP OS Restore CDs in a safe place. Dispose of the old VIP OS Restore CDs and the old VIP OS Restore diskettes #1 #3. Continue to store VIP OS Restore diskette #4 in a safe place.

#### 4.1 Restoring the Hard Drive Image

- 1. Press the Power Button on the VIP computer to power up the computer. When the "F2 = Setup" message is displayed in the upper right corner of the screen, press the F2 function key to display the computer BIOS settings.
- 2. Insert the VIP OS Restore #1 CD into the CD drive and close it. Make sure no floppy is in the A: drive.
- 3. Use the down arrow key to move the blue selection bar to the *Boot Sequence* and press <*Enter*> to display the boot sequence.
- 4. The IDE CD-ROM Device needs to be enabled (indicated by a check mark to the left of the device name) and it needs to be listed before the Hard-Disk-Drive C:. If both these conditions are satisfied, press the Esc key twice and skip to step 10. Otherwise, continue with the following steps.
- 5. Use the down arrow key to move the blue selection bar to the IDE CD-ROM Device.
- 6. If the CD device is **enabled** (check mark), skip to step 7. Otherwise, change disabled (no check mark) to enabled (check mark) by pressing the space bar once.
- 7. If the *IDE CD-ROM Device* is listed **before** the *Hard-Disk-Drive C:*, skip to step 8. Otherwise, move the *IDE CD-ROM Device* to before the *Hard-Disk-Drive C:* by using the minus key.
- 8. Press the Escape key twice and a dialogue box is displayed asking if the changes should be saved.
- 9. Select Save Changes and Exit and press < Enter>.
- 10. The VIP will start booting from the CD. A black text screen will appear with the following prompt:

boot:

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11. Enter the following at the prompt:

**nuke noresize** and press *Enter*.

12. A black text screen appears with the following:

Please specify an alternate tape device or hit [ENTER] to boot from CD/floppies.

- 13. Press **Enter** to boot off the CD.
- 14. The Mondo Rescue application will start. It displays a blue text screen with the message WELCOME TO MONDO RESCUE at the top. A box labeled Caution with the warning Be advised. I am about to ERASE your hard disks appears. It contains a countdown timer bar. Allow this countdown to expire and wipe clean and restore your existing VIP hard drive. The restore process will proceed through several screens of formatting and restoring data.
- 15. The first CD takes about fifteen minutes to complete. At any time, if the screen becomes blank and black, it can be safely restored by using the right arrow key.
- 16. You will be prompted with a prompt box titled *Alert* with the text phrase *Please insert CDR#2 and press Enter*. If the CD drive does not open automatically, open the CD drive with the eject button and replace CD #1 with the one titled *VIP OS Restore #2 CD*. Push the tray button and press <*Enter*>.
- 17. Repeat step 9 for CDs 3 6. *VIP OS Restore* #2 #5 *CDs* each take about 10 minutes to complete. #6 will take about 3 minutes. While the process is running, the screen will display messages *Restoring from archives* and *Reassembling large files*, each with a progress bar.
- 18. At the conclusion of the procedure, the following finished prompt in white text appears and the blue screen is pushed up by the black screen:

To reboot press CTRL-ALT-DEL together

Remove the final CD, close the CD drawer, and press CTRL-ALT-DEL

NOTE: 1. Sometimes the VIP will fail after the disk image has been restored. When the VIP starts booting, a "kernel panic" occurs. If this happens a simple and fast procedure exists to correct the problem.

- 19. The Red Hat Linux 7.3 Operating System begins to boot. If the VIP stops booting with a "kernel panic" error, use the procedure in steps 20 24 to recover. Otherwise, skip to step 25.
- 20. Place the VIP OS Restore #1 CD in the VIP CD tray. Power down and power up the VIP.

**NOTE:** 2. Be prepared to **quickly** enter the next command at the *boot:* prompt.

21. Type **expert** and press *Enter*. The rescue image begins booting and will stop with the following message:

Please specify an alternate tape device, or hit <Enter> to boot from the CD/floppies

22. Press **<**Enter> again. The CD will finish booting. The VIP displays a black text screen with the following message:

Please wait sh: can't access tty; job control turned off #

- 23. At the pound sign prompt, type **post-nuke** and press **<Enter>**. The procedure will take about 2 seconds to run. When completed, the script will report that the post-nuke finished after displaying the partition table information.
- 24. Press the CD eject button to open the CD tray. Remove the CD. Press **CTRL-ALT-DEL** together to reboot the VIP.

**NOTE:** 3. If the *Welcome to Kudzu* screen appears, be prepared to quickly press the space bar.

- 25. The Red Hat Linux 7.3 Operating System will continue to boot. Prior to the login screen, a blue screen with a *Welcome to Kudzu* message may display. This is a timed screen, so do not delay. Immediately **press the space bar** to proceed. Both, one, or neither of the following two scenarios described in steps 26 and 27 may occur.
- 26. The Hardware Removed screen is displayed with the text The following video adapter has been removed.... If this screen is not displayed, skip to step 27. Otherwise, your response will remove the hardware: Using the left and right arrow keys, select the Remove Configuration button and press <\*Enter\*>. You may next have a Hardware Added screen displayed for the nVidia Video Adapater. If not, proceed to the next step. Otherwise, your response will configure the video card: Using the left and right arrow keys, select the Configure button and press <\*Enter\*>.
- 27. The Hardware Removed/Changed screen is displayed with the text The mouse has changed. If this screen is not displayed, skip to step 28. Otherwise, your response will keep the current configuration: Using the left and right arrow keys, select the Keep current configuration button and press < Enter>.
- 28. The system will continue booting. If a GUI Linux login screen appears, skip to step 31. If a GUI Linux login screen does not appear and instead a text login prompt appears, continue with steps 29 and 30 to reboot the system and try again.
- 29. At the login prompt, type **root** enter the root password **nws2004** when prompted.
- 30. Type /sbin/shutdown -r now to shutdown the VIP and reboot. The system will continue booting, and a GUI Linux login screen appears.

## NOTE: 4. Steps 31 through 42 will configure the VIP network address

- 31. At the VIP login screen, type **root** and press **Enter**.
- 32. Type root password nws2004 and press Enter.
- 33. Click the **KDE Gear** icon in the lower left corner of the screen.
- 34. Click System.
- 35. Click Network Configuration.
- 36. In the Network Configurator Window, click on Active eth0 device.
- 37. Click **Edit.** Change the IP address and default Gateway value to match the VIP entry in the 0MP /etc/hosts file. For example, the entry at the NWSHQ Test Bed site is 165.92.20.121. Ensure the Netmask is **255.255.0.0**.
- 38. Click **OK**.
- 39. Click Apply.
- 40. Click **Deactivate**.
- 41. Click Activate.
- 42. Click Close.

**NOTE:** 5. Steps 43 through 57 will configure the site-specific IP addresses in the VIP hosts file and change VIP passwords.

- 43. Click the **KDE Gear** icon in the lower left area of the screen.
- 44. Click Editors.
- 45. Click KEDit.
- 46. Click File.
- 47. Click Open.
- 48. In the Location box, type /etc/hosts
- Click OK. If there is a duplicate set of IP addresses, delete the second set.
- 50. Change the **entries** to match those for **VIP**, **0MP**, **5MP**, **as1**, and **as2** in the 0MP /etc/hosts file. For example, the 0MP entry at the NWSHQ Test Bed site is 165.92.20.111. Also, change the entry for **as1f** so it is consistent with the site's subnet.
- 51. Click File and select Save.
- Click File and select Quit.
- 53. Click the **Shell** icon (lower left area of the screen) to open a *Shell* window.

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54. To verify the /etc/hosts file, type **ping 0MP** and press **Enter**; then type **ping 5MP** and press **Enter**.

NOTE: 6. If you do not need to configure the remote SFTP function, skip step 55.

55. Type **chmod 666 /etc/hosts** and press **Enter** to allow you to configure the VIP for remote audio SFTP transmission.

## NOTE: /. Please observe the following rules when defining good passwords:

- 1. A minimum of eight non-blank characters.
- 2. A minimum of one lower case alphabetic in the first eight characters.
- 3. A minimum of one upper case alphabetic in the first eight characters.
- 4. A minimum of one number in the first eight characters.
- 5. Six of the characters may occur only once in the password.
- 6. Password must be changed at least every 90 days.
- 7. Password must not be used in the last 11 password changes.
- 8. Password cannot contain default passwords or words in dictionary.
- 9. No special characters are allowed.

## CAUTION: Do not use special characters in any of the CRS user account passwords. Even though the **Department of Commerce password management** policy specifies the use of at least one number or special character in the password, the CRS application software currently will not allow the use of special characters. The use of a special character in any password may cause the GUI login attempt to fail. Furthermore, the use of a special character in the root password may prevent access to the system. If this occurs, sites should consult Section A-7 (Lost Root User Password Recovery) of Appendix A (CRS Password Modification Procedures & Lost Root **User Recovery Password Recovery) of the draft CRS System Administration Manual.**

- 56. Create a crs user password by following the rules described above in Note 7:
  - a. Type **su crs** and enter the crs password **nws2004** when prompted. If the command hangs and no prompt is returned, open a shell terminal by clicking on the Konsole icon (fourth from the lower left in the display) and entering the commands in steps b and c. Otherwise skip to step d.
  - b. Type **killall stty -s 9** to allow the command in step a to complete successfully.
  - c. Type **exit** to close the shell terminal.
  - d. Type **passwd** and follow the instructions to enter the same crs user password used for 0MP.
  - e. Type **exit** to exit the crs user.
- 57. Create a root user password by following the rules described above in Note 7: Type **passwd root** and follow the instructions to enter the same root password used for 0MP.
- 58. End the login session by clicking the KDE Gear icon in the lower left area of the screen.
- 59. Click **Logout**. The *End Session* for root window appears.
- 60. Click **OK** and the *VIP Login* window is displayed.
- 4.2 Setting Up Installation and Site Information, CRS Network Information, Voice Settings, and Audio FTP Configuration

**NOTE:** 1. Use the *VIP Setup Wizard* to enter installation and site information, CRS network information, voice settings, and if necessary, audio SFTP configuration.

1. From the VIP *Login* window, login as crs with the password set in step 56 of section 4.1. Double-click the Voice Improvement Processor Application icon on the desktop. The *VIPv3.1 Setup Wizard Welcome* window displays.

NOTE: 2. The Setup Wizard will only appear the first time the user logs in with the crs user password. Once the information in the Setup Wizard is entered, double clicking on the VIP Application icon, will result in the display of the main VIP menu. This information may be edited using the Systems Settings window available from the main VIP menu.

2. Click **Next**. The *VIPv3.1 Setup Wizard: Step 1* window displays.

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#### NOTE:

- 3. Parts of the VIP system contain licensed software. You must read and accept the Speechify licensing agreement. Since not all sites will use the .mp3 ftp capability, acquisition of this license is the responsibility of the site. Information is provided in the agreement about the acquisition of this optional and inexpensive license. All sites must accept the Speechify licensing agreement to continue with the setup.
- 3. Click the box next to the statement: "I understand the above disclaimer." and click **Next**. The *VIPv3.1 Setup Wizard: Step 2* window displays. Click **Next**.
- 4. Enter the installer's name in the Name of installer box.
- 5. Select your site name from the scrollable list of sites.

#### NOTE:

4. Only 13 of 122 operational sites are licensed to use the Spanish Male (Javier) VIP voice. The VIP software will not allow any other sites to use the Spanish VIP voice. The following are Spanish VIP sites:

LOX - Los Angeles, CA LWX - Washington, D.C. EWX - Austin, TX MTR - Monterey, CA MFL - Miami, FL BRO - Brownsville, TX STO - Sacramento, CA PDT - Pendleton, OR EPZ- El Paso, TX SGX - San Diego, CA CAE - Columbia, SC SJU - San Juan, PR

HNX - San Joaquin, CA

Sites that are not in the above list shall not use the VIP Spanish voice.

- 6. Click **Next**. The *VIPv3.1 Setup Wizard: Step 3* window displays.
- 7. Enter the IP addresses for both the CRS 0MP and 5MP. For the CRS user "crs" password box, enter **TEST**. With the change to SFTP file transfers between the Master MP, this password is no longer used and is just a dummy. However, it cannot be left blank.
- 8. If you intend to use the VIP audio SFTP function, you must also enter the Gateway IP address. This step is optional.
- 9. Click **Next**. The *VIPv3.1 Setup Wizard: Step 4* window displays. This window allows you to set the rate and volume of the Tom voice.
- 10. Use the slider bar to adjust the default 0 rate and volume of the Tom voice. To assist you in setting these values, two buttons are available to play and stop playing text in the window.
- 11. Click **Next**. The *VIPv3.1 Setup Wizard: Step 5* window displays. This window allows you to set the rate and volume of the Donna voice.

12. Use the slider bar to adjust the default 0 rate and volume of the Donna voice. To assist you in setting these values, two buttons are available to play and stop playing text in the window.

NOTE:

- 5. The VIPv3.1 Setup Wizard: Step 6 window will only display for the Spanish VIP sites listed in the Note 4 box following step 5. All other sites should skip steps 13 and 14 below.
- 13. Click **Next**. The *VIPv3.1 Setup Wizard: Step 6* window displays. This window allows you to set the rate and volume of the Javier voice.
- 14. Use the slider bar to adjust the default 0 rate and volume of the Javier voice. To assist you in setting these values, two buttons are available to play and stop playing text in the window.
- 15. Click **Next**. The *VIPv3.1 Setup Wizard: Step 7* window displays. This window allows you to optionally configure the VIP for remote audio SFTP transmission.

NOTE:

- 6. Remote SFTP may be used to populate Web servers by providing audio for every message processed by VIP. Audio uploads are either 16 kHz, 16-bit multimedia wav files or mp3 files. This is not a standard CRS function; if you wish to use this feature, it is strongly recommended that you first contact the regional AWIPS focal point for approval. Otherwise, skip step 16.
- 16. Enter the user, password, IP address, and upload directory information for .wav file or .mp3 file. Then select ON to activate this function.
- 17. Click **Next**. The VIPv3.1 Setup Wizard: Finished window displays.
- 18. You have completed the VIP setup. Click on the **Finish** button.
- 19. The main VIP menu displays.

NOTE: 7. If you did **not** configure the remote SFTP function, skip steps 20 - 24.

- 20. Click on the Konsole icon (fourth from the lower left in the display).
- 21. Type **su root** and press **Enter.** When prompted, enter the root password and press **Enter**.
- 22. Type **chmod 644 /etc/hosts** and press **Enter** to change the permissions back.
- 23. Type **exit** and press **Enter** to exit the root user.
- 24. Type **exit** and press **Enter** to close the shell.

#### PART 5 – Recovery of VIP Pre-Processor Substitution and Local Dictionaries

#### **5.1 Recovery of Substitution Dictionaries**

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- 1. Place the diskette labeled **tom-sub.dic** in the drive. From the main VIP menu, click on the **Pre-Processor** button. This will display the *Pre-Processor "Substitution Dictionary" Manager*.
- 2. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Male Substitution Dictionary <Tom>**.
- 3. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Substitution Dictionary From Floppy Disk**.
- 4. A Dialog Box is displayed that asks: *Retrieve the "Tom Substitution" dictionary from floppy disk?* Click on the **Yes** button.
- 5. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "tom-sub.d*ic". Click on the **OK** button.
- 6. Remove the **tom-sub.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the English Male Substitution Dictionary.
- Place the diskette labeled mara-sub.dic in the drive. Click on Options, which displays a pull down menu. From the pull down menu, click on English Female Substitution Dictionary <Donna>.
- 8. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Substitution Dictionary From Floppy Disk**.
- 9. A Dialog Box is displayed that asks: *Retrieve the "Donna Substitution" dictionary from floppy disk?* Click on the **Yes** button.
- 10. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "mara-sub.d*ic". Click on the **OK** button.
- 11. Remove the **mara-sub.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the English Female Substitution Dictionary. If you do not have a Spanish license, skip to step 17.
- 12. Place the diskette labeled **javier-sub.dic** in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Spanish Male Substitution Dictionary <Javier>**.
- 13. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Substitution Dictionary From Floppy Disk**.
- 14. A Dialog Box is displayed that asks: *Retrieve the "Javier Substitution" dictionary from floppy disk?* Click on the **Yes** button.
- 15. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "javier-sub.d*ic". Click on the **OK** button.
- 16. Remove the **javier-sub.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the Spanish Male Substitution Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *javier-sub.dic*.

17. Click on the **black x** to exit from the *Pre-Processor "Substitution Dictionary" Manager* window.

#### 5.2 Recovery of Local Dictionaries

- 1. Place the diskette labeled **tom-root.dic** in the drive. From the main VIP menu, click on the **Dict Manager** button. This will display the *Local Dictionary Manager*.
- 2. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Male Dictionary <Tom>**.
- 3. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Dictionary From Floppy Disk**.
- 4. A Dialog Box is displayed that asks: *Retrieve the "Tom" dictionary from floppy disk?*Click on the **Yes** button.
- 5. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "tom-root.dic"*. Click on the **OK** button.
- 6. Remove the **tom-root.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the English Male Local Dictionary.
- 7. Place the diskette labeled **mara-root.dic** in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **English Female Dictionary** <**Donna>**.
- 8. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Dictionary From Floppy Disk**.
- 9. A Dialog Box is displayed that asks: *Retrieve the "Donna" dictionary from floppy disk?* Click on the **Yes** button.
- 10. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "mara-root.d*ic". Click on the **OK** button.
- 11. Remove the **mara-root.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the English Female Local Dictionary. If you do not have a Spanish license, skip to step 17.
- 12. Place the diskette labeled **javier-root.dic** in the drive. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Spanish Male Dictionary** <Javier>.
- 13. Click on **Options**, which displays a *pull down* menu. From the pull down menu, click on **Restore Current Dictionary From Floppy Disk**.
- 14. A Dialog Box is displayed that asks: *Retrieve the "Javier" dictionary from floppy disk?* Click on the **Yes** button.
- 15. A successful transfer of the dictionary will cause a *Dialog Box* to display with the following message: *File upload complete for "javier-root.d*ic". Click on the **OK** button.

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- 16. Remove the **javier-sub.dic** diskette from the drive and keep it in a safe place. It will be used again if you need to restore the Spanish Male Local Dictionary. Please note that the operator has no choice in the name of the backup file; it will always be *javier-sub.dic*.
- 17. Click on the black x to exit from the Local Dictionary Manager window.

#### PART 6 - TERMINATION OF THE CRS BUILD 9.0.1 APPLICATION SOFTWARE

#### 6.1 Validating and Verifying the CRS Database

**NOTE:** Before beginning the procedure, verify that the operational database is not contaminated by stopping and restarting the CRS application.

- 1. On a blank part of the desktop, click and hold the left mouse button to pop up the CRS Utilities menu. Select XCRS\_SITE Utility, and release the mouse button. The XCRS Site Configuration Developer window displays.
- 2. Click Stop CRS System. The system displays:

The CRS System will be STOPPED. Continue?

- 3. Click OK. Wait for the CRS application to stop. All status icons in the system status window indicate *Red Down*.
- 4. To start the CRS Build 9.0.1 Application from the XCRS\_Site Configuration Developer window, click the Start CRS System button. The system displays:

The CRS System will be STARTED. Continue?

- 5. Click OK. Wait until the *watch* icon disappears to indicate that CRS is initiating. Then close the *XCRS\_Site Configuration Developer* window by clicking Exit.
- 6. Verify that the system is operational by checking the *System Status* window. If the system does not start properly, the database needs to be restored by either installing a previous backup (*Database Backup*/*Recovery Window*) or reloading the *daily.ASC* ASCII database file from the *XCRS\_Site Configuration Developer*. Once the system starts properly, proceed with the next step.

#### 6.2 Terminating the CRS Application

- On a blank part of the desktop, click and hold the left mouse button to pop up the CRS
   Utilities menu. Select XCRS\_SITE Utility, and release the mouse button. The
   XCRS\_SITE Configuration Developer window displays.
- 2. Click the Stop CRS System button. The system displays:

The CRS system will be STOPPED. Continue?

3. Click OK. Wait for the CRS application to stop. All status icons in the *System Status* window indicate *RED Down*. Close the *XCRS\_SITE Site Configuration Developer* window by clicking the Exit button.

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# PART 7 – INSTALLATION AND VERIFICATION OF CRS BUILD 10.0 APPLICATION SOFTWARE

#### 7.1 Installing CRS Software Build 10.0 From the CD-ROM

- 1. On the Main CRS menu, click System to access the System pull-down menu.
- 2. Click Exit to UNIX in the *System* pull-down menu. The *Wish to exit CRS Control Interface?* window displays. Click OK to exit the Control Interface.
- 3. CRS displays the *Security Screen* on top of the login window. Click Acknowledge to continue the login process.
- 4. At the *Login GUI* window, login as the root user. Click the KDE Desktop Application Starter (the big K Wheel icon) in the lower left section of the *KDE Desktop* panel.
- 5. Click SCO Control Center on the pop-up menu.

NOTE: 1. You may also start the SCO Control Center by clicking the SCO Admin (Swiss Army Knife) icon on the KDE Desktop panel.

- 6. Double-click Software Management.
- 7. Double-click Applications Installer.
- 8. Insert the CRS Build 10.0 CD-ROM into the CD drive of the selected installation MP, then select CD-ROM\_1 from the *Install from:* prompt in the upper half of the *Application Installer* window. If the files are not automatically read, click Update View.
- 9. After the CRS application package icons (crsopsais, crsopsfpm and crsopsmpm) are displayed immediately below the *Install from:* prompt, select crsopsais, and click Install.

**NOTE:** 2. crsopsfpm and crsopsmpm can only be installed indirectly through crsopsais.

10. Respond to the prompts displayed in Part 7.2, "Responding to Installation Prompts."

#### NOTE:

- 3. The Add Application: crsopsais window and the auto-install window display the installation activity log and prompts for the installation operator. The log information and the prompt sequences will vary depending on the responses to the prompts.
- 4. In some instances, the installation process may erroneously come to a halt following the completion of the installation on 0MP. If you receive no further messages, the software was not installed on 5MP or any of the FEPs. If this occurs, terminate the installation, shut down 0MP, and repeat section 7.1.

#### 7.2 Responding to Installation Prompts

NOTE:

- 1. The installation prompts that follow assume a typical configuration (0MP, 5MP, 1FEP, and 4BKUP).
- 2. The prompt sequence begins with prompt p1. Unless otherwise indicated. prompts occur in sequence (p1 ... p11).
  - p1 Build [version] installation options (default: a)
    - all processors (OMP 5MP 1FEP 4BKUP | 5MP 0MP 1FEP 4BKUP)
    - front-end processors (1FEP 4BKUP)
    - m MPs (0MP 5MP | 5MP 0MP)
    - specific processor
    - exit X -

Select the installation default (option a) to load the software on all processors. Press Enter to select the installation option.

If it is determined that the IP addresses in /etc/inet/hosts (preinstalled by the CRS software contractor at the factory) are not correct, then prompt *p*2 displays.

p2 Enter your CRS site ID (e.g., DLH or NRC1):

Enter the correct local site ID. Entry of a valid site ID results in a comparison of a set of expected IP addresses and the actual IP addresses in /etc/inet/hosts on all accessible (online) CRS processors. Differences between expected and actual IP addresses are displayed and logged. The entry of an invalid site ID results in the display of prompt p2 again. If only the Enter key is pressed, the p3 prompt will be displayed. Otherwise, the p4 prompt will be displayed.

p3 Display a list of all valid CRS site IDs? (default: y)

An affirmative response (y) to this prompt results in the display of a list of all valid CRS site IDs and their associated site locations (city, state, region). The list is presented in "pages" via the UNIX utility "pg". Press RETURN or "+" to display the next page, press "-" to display the previous page, and press "q" to redisplay prompt p2. A negative response (n) results in the redisplay of prompt p2.

p4 Clean out (reset) log files? (default: y)

An affirmative response (y) to this prompt results in the resetting of all the CRS application software log files on all the processors in the configuration. A negative response (n) results in no changes to the CRS log files on any of the processors. It is normally good practice to clean the log files when a new software release is installed.

p5 Change CRS system date and time? (default: n)

#### NOTE:

2.(cont.)

An affirmative response (y) to this prompt results in a sequence of additional prompts beginning with p6. The entered date will be used to change the date and time on all the processors. A negative response (n) results in no changes to the current system date and time (displayed prior to the prompt); the next prompt will be p11.

```
p6 Enter year (e.g., 1997):
```

p7 Enter month (e.g., 01<=mm<=12):

p8 Enter day (e.g., 01<=dd<=31)

p9 Enter hour (e.g., 00<=HH<23):

p10Enter minute (e.g., 00=MM<=59):

p11Build [version] will be installed on the following processors:

[OMP | 5MP | 1FEP | 4BKUP ...]

with the following options:

Detected configuration is typical

[0MP / 5MP] remains CRS master (and X-window client) [0MP / 5MP] remains CRS shadow (and X-window server)

Log files will be cleaned (reset on [5MP 0MP 1FEP 4BKUP]

Proceed with Build [version] installation? (default: y)

An affirmative response (y) to this prompt results in the installation of the CRS application software with the appropriate constraints indicated. A negative (n) response results in the display of a *Message* dialog

window with the text: *User does not have permission to install packages pkgadd*. Clicking OK terminates the installation.

#### NOTE:

- 3. The master and shadow states that exist on the MPs at the time of installation should be preserved, if possible. Otherwise, the installation scripts determine new MP states, based on the old MP states, whether software is being installed on them and/or they are online.
- 4. The installation process will take approximately 15 to 20 minutes.

#### 7.3 Post-Installation Caveats and Conventions

#### NOTE:

1. Software is installed on CRS processors in a predefined sequence (MPs, then FEPs). When the software has been successfully installed on a processor other than the installation MP, that processor is automatically shut down (and restarted). Because the FEPs share a single console (monitor and keyboard), only one of the FEPs—the one to which the console is physically connected through the switch box—starts itself automatically, following the shutdown. The startup sequence on an FEP that is not connected to a keyboard pauses while waiting for an F1 key to be pressed at the keyboard. To complete the startup sequence for an FEP that is "stuck" waiting for the F1 key to be pressed, connect (via the switch box) the keyboard to the FEP, verify that it is waiting (prompt message on the monitor), and press the F1 key.

While the installation is in progress, many messages are displayed in the *auto-install log* window on the console.

Messages are of three types: ERROR, INFO and WARNING. Most of these messages are also written to the installation log file (/crs/install.log)

All error and warning messages from the installation log file are displayed in the *auto-install log* window at the completion of installation, in the following format:

**Installation ERRORS** 

[ERROR messages from the installation log file | None ] [Refer to the installation procedures for further assistance] Installation WARNING

[WARNING messages from the installation log file | None]

[Refer to section 7.4 for further assistance].

2. Inspection of the /crs/install.log file, after installation of the CRS Build 10.0 software, may result in the following message:

UX:Ipadmin: WARNING: "/dev/term/a02s" is accessible by others

This warning can be ignored.

1. Press **<**Enter> to continue. The system displays the following:

Continue [OMP | 5MP] shutdown? (Default: y)

#### NOTE:

3. Shutting down the installation MP [0MP | 5MP] is an option. It is not necessary to shut down after the software has been installed on an FEP. A shut down is RECOMMENDED after CRS software has been installed on an MP to ensure that the installation MP [0MP | 5MP] and the other MP [0MP | 5MP] are functionally synchronized as CRS master and CRS shadow.

#### 2. Press < Enter>.

NOTE:

4. If valid errors and warnings are displayed, error and warning messages must be resolved before attempting to start the system.

If there are no error or warning messages (i.e., the installation log displays "None"), the reference to the installation procedures (see Note 1 above) is not displayed. The *auto-install log* window displays until the operator responds to the prompt noted in step 1.

An affirmative response (y or Enter) results in the automatic shutdown and restart of the installation MP. **Remove the CD when the procedure is completed.** 

A negative response (n) results in the disappearance of the prompt and the autoinstall log window unless the state (master or shadow) of the installation MP has been changed, in which case the prompt *Shutting down to synchronize MP* functionality informs the operator that the installation MP will be shutdown. (Shutdown occurs when the operator presses any key.)

#### 7.4 Viewing the Installation Log File

NOTE:

Results of the installation are logged into the *auto-install* window and into a log file (/crs/install.log). Logged messages are of three types: ERROR, INFO, and WARNING. INFO messages can be ignored. ERROR and WARNING messages are summarized in the *auto-install* window at the completion of the installation. They must be resolved before the system is started.

All logged messages have the following format:

date: script: type: [...] on PROC

where:

date = DDD MMM dd hh:mm:ss LLL YYYY

DDD day of week abbreviation (e.g., Thu = Thursday)

MMM month of year abbreviation (e.g., Sep=September)

dd numeric day of month (e.g., 1<dd<31)

hh hour of the day in military format (e.g., 00<hh<23)

mm minute of the hour (e.g., 00<mm<59)

ss second of the minute (e.g., 00<ss<59)

LLL local standard time (e.g., PDT = Pacific Daylight Time)

YYYY calendar year script = name of shell script in

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### NOTE (Cont.):

which message is generated

type = ERROR | INFO | WARNING

[...] = text describing a condition of the type indicated

PROC = processor (e.g., 0MP, 5MP, 3FEP, 4BKUP) on which condition

described by the text occurred

#### 7.5 Modification of MMI to Remove Unwanted Messages

- 1. If not already logged into CRS as admin, do so now.
- 2. On 0MP open a *UNIX shell* window from the *Maintenance* menu.
- 3. Log in as the *root* user:

0MP{admin} su -

Enter the root password.

4. Enter the following command to display the SCOADMIN License Manager window:

#### scoadmin license

5. The following 3 licenses will be displayed:

\* Merge 4 Desktop Edition (highlighted in black) SCO Advanced File and Print Server Unixware 7 Business Edition

The first two licenses are DEMO licenses and are unregistered. They need to be removed.

- 6. Press the tab key once to move the cursor to *Host* on the top line.
- 7. Press the right arrow key to move the cursor to *License* and press the *Enter* key to display the *License* pulldown menu.
- 8. Press the down arrow key to select *Remove* and press the *Enter* key.
- 9. A confirmation message will be displayed. Press the left arrow key to select *OK* and press the <*Enter*> key.
- 10. The remaining two licenses will be displayed. Repeat steps 5 through 8 to remove the SCO Advanced File and Print Server license.
- 11. Press the tab key once to move the cursor to *Host* on the top line and press the <*Enter*> key.
- 12. Press the down arrow key to select *Exit* and press the <*Enter*> key to exit the License Manager window.
- 13. Type **exit** to exit root user.

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#### PART 8 - CHANGING OF MP, FEP, AND LAN SERVER PASSWORDS

These procedures detail which CRS user account passwords will be changed and how to change them. The 0MP user terminal displays the *Login GUI* window. Login as the "admin" user. The main *CRS GUI* window displays, followed by the *System Not Operational* dialog box. Click **OK**.

#### NOTE:

- 1. The following CRS user accounts are present on all CRS nodes: **root**, **crs**, **admin**, **maint** and **oper**.
- 2. The **switchmp** user account is only required on the 0MP and 5MP nodes. The **sysadm** user account is only required on the FEP nodes.
- 3. When changing system passwords, make sure the changes are made on each system node, i.e., 0MP, 5MP, 1FEP, 4BKUP and any remaining FEP nodes. Additionally, the LAN Server **root** user password must be changed.
- 4. The LAN server (ps8) root password is limited to a maximum of 8 characters. Therefore, if sites choose to have their root passwords match on all processors, they must limit them to 8 characters.
- 5. Please observe the following rules when defining good passwords:
  - 1. A minimum of eight non-blank characters.
  - 2. A minimum of one lower case alphabetic in the first eight characters.
  - 3. A minimum of one upper case alphabetic in the first eight characters.
  - 4. A minimum of one number in the first eight characters.
  - 5. Six of the characters may occur only once in the password.
  - 6. Password must be changed at least every 90 days.
  - 7. Password must not be used in the last 11 password changes.
  - 8. Password cannot contain default passwords or words in dictionary.
  - 9. No special characters are allowed.

#### CAUTION:

Do not use special characters in any of the CRS user account passwords. Even though the Department of Commerce password management policy specifies the use of at least one number or special character in the password, the CRS application software currently will not allow the use of special characters. The use of a special character in any password may cause the GUI login attempt to fail. Furthermore, the use of a special character in the root password may prevent access to the system. If this occurs, sites should consult Section A-7 (Lost Root User Password Recovery) of Appendix A (CRS **Password Modification Procedures & Lost Root** User Recovery Password Recovery) of the draft **CRS System Administration Manual.** 

#### 8.1 Procedure for Changing Passwords on the MPs and FEPs

- 1. If not already logged into CRS as admin, do so now.
- 2. If a UNIX shell window is not already open, do so from the Maintenance menu.
- 3. Log in as the root user:

0MP{admin} su
Enter the root password.

4. Use the UNIX *passwd* command to change the user passwords on the 0MP node. For the exact syntax and usage of the command, use the *man passwd* command string.

#### # passwd root

Follow the prompts to change the password.

#### NOTE:

 User switchmp password change cannot use the passwd command from the switchmp user. If this is done, it will force CRS to do an MP switch. The switchmp password must be changed using the passwd switchmp command from root user.

#### # passwd switchmp

Follow the prompts to change the password.

# **su - crs** and enter the crs password if prompted.

OMP{crs} passwd

Follow the prompts to change the password.

OMP{crs} exit
# su - admin and enter the admin password if prompted.
OMP{admin} passwd

Follow the prompts to change the password.

Follow the prompts to change the password.

Follow the prompts to change the password.

OMP{oper} exit

5. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *switchmp* 

```
# passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc. # passwd -s <user>
```

The output from the above command will display as follows:

```
<user> <status> <today's date> 0 91 14
```

6. Exit the *root* user.

# exit

7. Log into the 5MP node using the *rsh* command:

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OMP{admin} rsh 5MP

Log in as the *root* user:

5MP{admin} su

Enter the *root* password

8. Use the UNIX *passwd* command to change the user passwords on the 5MP node. For the exact syntax and usage of the command, use the *man passwd* command string.

**NOTE:** 2. The passwords should be changed to match the 0MP node passwords.

#### # passwd root

Follow the prompts to change the password.

NOTE:

 User switchmp password change cannot use the passwd command from the switchmp user. If this is done, it will force CRS to do an MP switch. The switchmp password must be changed using the passwd switchmp command from root user.

#### # passwd switchmp

Follow the prompts to change the password.

# **su - crs** and enter the crs password if prompted. 5MP{crs} **passwd** 

Follow the prompts to change the password.

5MP{crs} exit

# **su - admin** and enter the admin password if prompted.

5MP{admin} passwd

Follow the prompts to change the password.

5MP{admin} exit

# su - maint and enter the maint password if prompted.

5MP{maint} passwd

Follow the prompts to change the password.

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5MP{maint} exit

# **su - oper** and enter the oper password if prompted.

5MP{oper} passwd

Follow the prompts to change the password.

5MP{oper} exit

9. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *switchmp* 

```
# passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc. # passwd -s <user>
```

The output from the above command will display as follows:

```
<user> <status> <today's date> 0 91 14
```

10. Exit the *root* user and the 5MP node by typing **exit** twice.

# exit 5MP{admin} exit

11. Log into the 1FEP node using the *rsh* command:

0MP{admin} rsh 1FEP

Log in as the root user:

\$ su

Enter the *root* password.

12. Use the UNIX *passwd* command to change the user passwords on the 1FEP node. For the exact syntax and usage of the command, use the *man passwd* command string.

NOTE:

4. The passwords should be changed to match the 0MP node passwords where they exist. The sysadm password, which only exists on the FEPs, should be the same on all FEPs.

1FEP{root} passwd root

Follow the prompts to change the password.

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#### NOTE:

5. You cannot switch remotely to the sysadm user because of terminal emulator problems. Therefore, the sysadm password must be changed using the **passwd sysadm** command from root user.

#### 1FEP{root} passwd sysadm

Follow the prompts to change the password.

1FEP{root} su - crs and enter the crs password if prompted. \$ passwd

Follow the prompts to change the password.

\$ exit

1FEP{root} su - admin and enter the admin password if prompted. \$ passwd

Follow the prompts to change the password.

\$ exit

1FEP{root} su - maint and enter the maint password if prompted. \$ passwd

Follow the prompts to change the password.

\$ exit

1FEP{root} su - oper and enter the oper password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

13. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *sysadm* 

1FEP{root} passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc.

1FEP{root} passwd -s <user>

The output from the above command will display as follows:

<user> <status> <today's date> 0 91 14

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1FEP{root} exit To exit the root password

14. Exit the 1FEP node by typing *exit*.

\$ exit

15. Log into the 4BKUP node using the *rsh* command:

0MP{admin} rsh 4BKUP

Log in as the root user:

\$ su

Enter the *root* password.

16. Use the UNIX *passwd* command to change the user passwords on the 4BKUP node. For the exact syntax and usage of the command, use the *man passwd* command string.

NOTE:

6. The passwords should be changed to match the 0MP node passwords where they exist. The sysadm password, which only exists on the FEPs, should be the same on all FEPs.

#### 4BKUP{root} passwd root

Follow the prompts to change the password.

NOTE:

 You cannot switch remotely to the sysadm user because of terminal emulator problems. Therefore, the sysadm password must be changed using the passwd sysadm command from root user.

#### 4BKUProot} passwd sysadm

Follow the prompts to change the password.

4BKUP{root} su - crs and enter the crs password if prompted. \$ passwd

Follow the prompts to change the password.

\$ exit

4BKUP{root} su - admin and enter the admin password if prompted.

\$ passwd

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Follow the prompts to change the password.

\$ exit

4BKUP{root} su - maint and enter the maint password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

4BKUP{root} su - oper and enter the oper password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

17. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *sysadm* 

4BKUP{root} passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc.

4BKUP{root} passwd -s <user>

The output from the above command will display as follows:

<user> <status> <today's date> 0 91 14

4BKUP{root} exit To exit the root password

18. Exit the 4BKUP node by typing exit.

\$ exit

**NOTE:** 8. Sites with more than two FEP nodes should change passwords on the remaining FEPs as applicable. See the following steps.

19. Log into the 2FEP node using the *rsh* command:

0MP{admin} rsh 2FEP

Log in as the *root* user:

\$ su

Enter the *root* password.

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20. Use the UNIX *passwd* command to change the user passwords on the 2FEP node. For the exact syntax and usage of the command, use the *man passwd* command string.

NOTE:

9. The passwords should be changed to match the 0MP node passwords where they exist. The sysadm password, which only exists on the FEPs, should be the same on all FEPs.

#### 2FEP{root} passwd root

Follow the prompts to change the password.

NOTE:

10. You cannot switch remotely to the sysadm user because of terminal emulator problems. Therefore, the sysadm password must be changed using the passwd sysadm command from root user.

#### 2FEProot} passwd sysadm

Follow the prompts to change the password.

2FEP{root} **su - crs** and enter the crs password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

2FEP{root} **su - admin** and enter the admin password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

2FEP{root} su - maint and enter the maint password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

2FEP{root} **su - oper** and enter the oper password if prompted.

\$ passwd

Follow the prompts to change the password.

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\$ exit

21. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *sysadm* 

2FEP{root} passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc.

2FEP{root} passwd -s <user>

The output from the above command will display as follows:

<user> <status> <today's date> 0 91 14

2FEP{root} exit To exit the root password

22. Exit the 2FEP node by typing exit.

\$ exit

23. Log into the 3FEP node using the *rsh* command:

0MP{admin} rsh 3FEP

Log in as the root user:

\$ su

Enter the *root* password.

24. Use the UNIX *passwd* command to change the user passwords on the 3FEP node. For the exact syntax and usage of the command, use the *man passwd* command string.

NOTE:

11. The passwords should be changed to match the 0MP node passwords where they exist. The sysadm password, which only exists on the FEPs, should be the same on all FEPs.

3FEP{root} passwd root

Follow the prompts to change the password.

NOTE:

12. You cannot switch remotely to the sysadm user because of terminal emulator problems. Therefore, the sysadm password must be changed using the **passwd sysadm** command from root user.

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#### 3FEP{root} passwd sysadm

Follow the prompts to change the password.

3FEP{root} **su - crs** and enter the crs password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

3FEP{root} **su - admin** and enter the admin password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

3FEP{root} **su - maint** and enter the maint password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

3FEP{root} su - oper and enter the oper password if prompted.

\$ passwd

Follow the prompts to change the password.

\$ exit

25. Save the password warning and expiration information for all users except *root*. The following two commands must be entered for the following users: *crs*, *admin*, *maint*, *oper*, and *sysadm* 

3FEP{root} passwd -n 0 -w 14 -x 91 <user> where <user> is crs, admin, maint, etc.

3FEP{root} passwd -s <user>

The output from the above command will display as follows:

<user> <status> <today's date> 0 91 14

3FEP{root} exit To exit the root password

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26. Exit the 3FEP node by typing exit.

\$ exit

27. Exit the *UNIX shell* window by typing *exit*. *OMP{admin}* **exit** 

#### 8.2 Procedure for Changing the LAN Server (ps8) Password

#### NOTE:

- The CRS and VIP application software should not be running. If the CRS application software is running, stop the CRS application by clicking the System menu, selecting Stop System, and then selecting OK. Wait until the application completely stops. If the VIP application is running, stop the VIP application by clicking Stop on the VIP main interface menu.
- 1. Open a UNIX shell window from the Maintenance menu.
- 2. Type:

telnet ps8

- 3. Log in as *root* user and enter the *root* password (default password is **dbps**).
- 4. Type:

newpass

5. The system prompts:

Current password: [enter current password]

6. The system prompts:

new password: [enter new password]

### **NOTE:** 2. No more than 8 characters are allowed in the password.

7. The system prompts:

repeat new password: [re-enter new password]

8. Type:

exit to exit the LAN Server

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# 8.3 Procedure for Changing the CRS User Password in the /data/fxa/workFiles/nwr/nwr.cfg File on the AWIPS DS1 Node

#### **AWIPS System Assumptions**

The /data/fxa/workFiles/nwr/nwr.cfg has been correctly configured on the site DS1 node. The file should contain, in strict order, the following information: CRS user name, CRS user password, and the interface type **LAN**. The CRS user password must be changed to match that used in CRS. See the following example:

ds1-nmtw{awipsusr}2: cat /data/fxa/workfiles/nwr/nwr.cfg crs

XXXXX [Verify the correct crs user password here]

LAN

ds1-nmtw{awipsusr}3:

**NOTE:** Based on your system configuration, change your CRS password on every AWIPS node where the *nwr.cfg* file exists. For example, if you run transferNWR on workstations to ftp messages to CRS, the CRS password must be changed there as well. If you are unsure of your specific configuration, please check with the AWIPS focal point.

#### 8.4 Shut Down and Restart Both MPs

- 1. If a UNIX shell window is not already open, do so from the Maintenance menu.
- 2. Type **su** and enter the root password to login as the root user.
- 3. Type **rsh 5MP** /**sbin**/**shutdown -y -i0 -g0** to begin the shutdown process on 5MP. 5MP will shut down, and the last message on the 5MP terminal will prompt the user to press any key to start the system.
- 4. Type **cd** / to change to the root directory on 0MP.
- 5. Type /sbin/shutdown -y -i0 -g0 to begin the shutdown process on 0MP.

  0MP will shut down, and the last message on the 0MP terminal will prompt the user to press any key to start the system.
- 6. Press *ENTER* on the OMP terminal to boot the OMP. Repeat this on 5MP.
- 7. After a minute or so, both MPs will reboot completely and display the 0MP CRS login window. Please log into both terminals as admin user.

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#### **PART 9 - INSTALLATION OF SSH KEYS**

NOTE:

1. This procedure requires <u>a blank DOS formatted 1.44 mb diskette</u> that will eventually contain the SSH Keys (after proceeding with the installation instructions) which will be referred to in this document as the keyfile diskette.

NOTE:

2. When the MPs and VIP are restarted following the installation of the CRS Build 10.0 and VIP 3.1 respectively, authentication key pairs (public and private) are installed. These keys will be used for sftp transactions between the MPs and VIP. Because of loading concerns in AWIPS, it will not have the sftp capability. Transactions from AWIPS to CRS will continue to use ftp. However, Section C-6.1 of Appendix C of the draft System Administration Manual must be performed if and when AWIPS installs the sftp capability in order to update the public keys from AWIPS.

NOTE:

- 3. The fixkey script is used in the following steps to copy keys to and from the keyfile diskette and the MPs and VIP. The steps that follow instruct the installer to open up UNIX shells on the VIP, 5MP, and 0MP respectively and start the fixkey script on all three processors. After each of the three processors have been set up to start copying the keys, the fixkey script will instruct the user to wait to make sure that the following five steps are performed in the proper order:
  - #1. The diskette is placed in the 0MP diskette drive. If AWIPS public key files are present (and they will not), they are copied to 0MP. If they are present, there can be as many as nine. If they are not present (and they will not), the script displays a warning message to that effect. The 0MP host and crs user keys are copied to the diskette.
  - #2. Step 1 is repeated for 5MP.
  - #3. The diskette is placed in the VIP diskette drive. The 0MP and 5MP host and crs user keys are copied to the VIP. The VIP host and crs user keys are copied to the diskette. The VIP fingerprint report is copied to the diskette.
  - #4. The diskette is placed in the 0MP diskette drive. The VIP host and crs user keys are copied to 0MP. The 0MP fingerprint report is copied to the diskette.
  - #5. Step 4 is repeated for 5MP.

Once the setup for the keyfiles is complete, the scripts can be started in the order described above.

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#### NOTE:

- 4. The fingerprint report files shall be retained as a record of the authentication key generation. The keyfile diskette should be labeled, dated, and initialed. It should be stored in a secure manner in a locked container that is consistent with the DOC password hard copy storage requirements.
- If not already logged in as "crs" on the VIP, login as "crs". Click on the Konsole icon (fourth from the lower left in the display) to display a UNIX shell screen. Enter the following commands at the prompt:
- 2. **su <***Enter***>** and type in the appropriate root password.

NOTE: 5. Make sure you do not press the < Enter > key to start copying the keys until this has been done for 0MP and 5MP (script steps #1 and #2 respectively).

#### 3. fixkeysv.sh < Enter>

This will start the fixkey script described in Note 3 above. The following message will be displayed on the screen:

Ready for Step #3 of fixkeysv.sh procedure running on system VIP. This procedure sets up ssh configuration/key files in CRS/VIP. If you did not want to run fixkeysv.sh use the CNTL-C key to exit.

First - did you complete Step #2 with the floppy on the 5mp computer? At Step #3 place the keyfile diskette in the VIP floppy drive and press ENTER:

## \*\*\* CAUTION: DO NOT PRESS THE <ENTER> KEY \*\*\*

NOTE: 6. The VIP is now set up to start the copying of the keys. Make sure you do not press the <Enter> key to start the process until this has been done for 0MP and 5MP (script steps #1 and #2 respectively).

4. [CTRL] [CTRL] This will move the video display, mouse, and keyboard to the 5MP.

**NOTE:** 7. The operator will open two UNIX shells. One will be used to run the fixkey script on 0MP. The other one will remote shell to 5MP to run the fixkey script there.

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- 5. On the *CRS Main* Menu, click on the *Maintenance* menu and then click on *UNIX Shell* to open a UNIX Shell. Repeat this to open a second UNIX Shell. Position the two shells so that one is in the top half of the window and the second is in the bottom half.
- 6. Click on the bottom UNIX Shell and enter the following commands at the prompt:
- 7. **rsh 5mp <Enter>** This will remote shell to 5MP.
- 8. **su <***Enter***>** and enter the root password.

**NOTE:** 8. Make sure you do not press the <**Enter**> key to start copying the keys until this has been done for 0MP (script step #1).

#### 9. /etc/config/fixkeys.sh < Enter>

This will start the fixkey script described in Note 3 above. The following message will be displayed on the screen:

Ready for Step #2 of fixkeys.sh procedure running on system 5MP. This procedure sets up ssh configuration/key files in CRS/VIP. If you did not want to run fixkeys.sh use the DELETE key to exit.

First - did you complete Step #1 with the floppy on the 0mp computer? At Step #2 place the keyfile diskette in the 5MP floppy drive and press ENTER:

## \*\*\* CAUTION: DO NOT PRESS THE < ENTER > KEY \*\*\*

NOTE: 9. The 5MP is now set up to start the copying of the keys. Make sure you do not press the <Enter> key to start the process until this has been done for 0MP (script step #1).

- 10. Leave the 5MP UNIX Shell by clicking on the UNIX Shell in the top half of the window. This is the 0MP window. Enter the following commands at the prompt:
- 11. **su <***Enter***>** and type in the appropriate root password.

**NOTE:** 10. Make sure you do not press the *Enter* key to start copying the keys until the keyfile diskette has been inserted into the 0mp diskette drive.

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#### 12. /etc/config/fixkeys.sh < Enter>

This will start the fixkey script described in Note 3 above. The following message will be displayed on the screen:

Step #1 of fixkeys.sh procedure running on system 0MP. This procedure sets up ssh configuration/key files in CRS/VIP. If you did not want to run fixkeys.sh use the DELETE key to exit.

If you have AWIPS keyfiles they should already be on your dos format keyfile diskette. and then when you are ready for Step #I, At Step #I place the keyfile diskette in the OMP floppy drive and press ENTER:

#### NOTE:

- 11. All three processors are now set up to start the copying of the keys. You will proceed in the order (script steps #1 #5) described above. The previous warnings to not press the **<***Enter***>** key allow for an orderly and proper installation. Any problems and/or operator errors in the following steps will cause the installation to be aborted.
- 13. Insert the keyfile diskette in the <u>OMP</u> diskette drive and press the *Enter* key to perform script step #1. The following message will be displayed on the screen:

Step #1 in progress.

Deleting any awips.pub files not on the floppy already in /crs/.ssh. WARNING: The AWIPS keyfile not found. You will have no AWIPS SFTP. This is only proper if your AWIPS has not yet implemented ssh. When AWIPS has ssh and a keyfile this procedure must be rerun. At that time the files should be on the keyfile floppy as awips#.pub - for example awips1.pub. Multiple files each with a single public key are allowed - the floppy may have awips1.pub and awps2.pub. Please see your CRS/VIP Software Installation Procedure for further information.

Remaining CRS/VIP key installation without AWIPS will proceed if you press ENTER. Otherwise use DELETE/CNTRL -C to stop fixkeys procedure on all boxes and start again with a corrected floppy.

#### NOTE:

- 12. Since AWIPS will not have the sftp capability when CRS Build 10.0/VIP 3.1 is implemented, do not be concerned with the warning described above. It is important to note, however, that Section C-6.1 of Appendix C of the draft System Administration Manual must be performed when AWIPS adds the sftp capability.
- 14. Press < *Enter*> to resume copying the keyfiles. The following message will be displayed on the screen:

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Step #1 completed - now move the keyfile diskette to the 5mp computer floppy drive for Step #2.

When ready for Step #4 after 5mp and vip steps, At Step #4 replace the keyfile diskette in the 0MP floppy drive and press ENTER:

15. Remove the keyfile diskette from the 0MP diskette drive and insert it into the <u>5MP</u> diskette drive. Leave the 0MP UNIX Shell by clicking on the 5MP Unix Shell and press the <*Enter*> key to perform script step #2. The following message will be displayed on the screen:

Step #2 in progress.

Deleting any awips.pub files not on the floppy already in /crs/.ssh. WARNING: The AWIPS keyfile not found. You will have no AWIPS SFTP. This is only proper if your AWIPS has not yet implemented ssh. When AWIPS has ssh and a keyfile this procedure must be rerun. At that time the files should be on the keyfile floppy as awips#.pub - for example awips1.pub. Multiple files each with a single public key are allowed - the floppy may have awips1.pub and awps2.pub. Please see your CRS/VIP Software Installation Procedure for further information.

Remaining CRS/VIP key installation without AWIPS will proceed if you press ENTER. Otherwise use DELETE/CNTRL -C to stop fixkeys procedure on all boxes and start again with a corrected floppy.

#### NOTE:

- 13. Since AWIPS will not have the sftp capability when CRS Build 10.0/VIP 3.1 is implemented, do not be concerned with the warning described above. It is important to note, however, that Section C-6.1 of Appendix C of the draft System Administration Manual must be performed when AWIPS adds the sftp capability
- 16. Press < *Enter*> to resume copying the keyfiles. The following message will be displayed on the screen:

Step #2 completed - now move the keyfile diskette to the vip computer floppy drive for Step #3.

When ready for Step #5 after the vip Step #3, At Step #5 replace the keyfile diskette in the 5MP floppy drive and press ENTER:

17. Remove the keyfile diskette from the 5MP diskette drive and insert it into the <u>VIP</u> diskette drive. Press *[CTRL]* [*CTRL]* to return the video display, mouse, and keyboard to the VIP and press the *<Enter>* key to perform script step #3. The following message will be displayed on the screen:

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Step #3 in progress

CRS VIP fixkeysv.sh - 0mp pub file found.

CRS VIP fixkeysv.sh - 5mp pub file found.

CRS VIP fixkeysv.sh - 0mphostrsa.pub file found.

CRS VIP fixkeysv.sh - 5mphostrsa.pub file found.

Fixing /home/crs/.ssh/authorized keys for 0mp and 5mp.

Fixing /etc/ssh/ssh known hosts with 0MP 5MP host info.

0mp host rsa pub key: /home/crs/.ssh/fprnt.VIP

5mp host rsa pub key: /home/crs/.ssh/fprnt.VIP

Stopping sshd Starting sshd

Step #3 complete. VIP ssh key configuration done.

Remove floppy and take to 0mp for Step #4.

End fixkeysv.sh script Step III done, fingerprint report in

/home/crs/.ssh/fprnt.VIP.

- 18. Press [CTRL] [CTRL] to return the video display, mouse, and keyboard to the MP.
- 19. Click on the 0MP UNIX Shell and move the keyfile diskette to the <u>0MP</u> diskette drive. Press the <*Enter*> key to perform script step #4. The following message will be displayed on the screen:

Step #4 in progress.

CRS 0MP fixkeys.sh - vip.pub file found.

CRS 0MP fiskeys.sh - viphostrsa.pub file found.

Configuring AWIPS/CRS/VIP keydata on 0MP.

Fixing /crs/.ssh/authorized keys for awips and vip.

UX:LS: ERROR: Cannot access /crs/.ssh/awips\*.pub: No such file or directory

Fixing /usr/local/etc/ssh known hosts with vip host info.

OMP fingerprint report in /crs/.ssh/fprnt.OMP.

After Step #4 on 0mp move floppy to 5mp for Step #5

Step #4 complete. OMP ssh key configuration done.

20. Click on the 5MP UNIX Shell and move the keyfile diskette to the <u>5MP</u> diskette drive. Press the <**Enter>** key to perform script step #5. The following message will be displayed on the screen:

Step #5 in progress.

CRS 5MP fixkeys.sh - vip.pub file found.

CRS 5MP fiskeys.sh - viphostrsa.pub file found.

Configuring AWIPS/CRS/VIP keydata on 5MP.

Fixing /crs/.ssh/authorized keys for awips and vip.

UX:LS: ERROR: Cannot access /crs/.ssh/awips\*.pub: No such file or directory

Fixing /usr/local/etc/ssh known hosts with vip host info.

5MP fingerprint report in /crs/.ssh/fprnt.5MP.

Last step.

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Step #5 complete. 5MP ssh key configuration done.

21. Verify all the key files have been saved on the keyfile diskette by typing the following:

# mdir a: >>temp.txt <Enter> cat temp.txt

The following files should be displayed (with different date/time stamps):

Directory for A:/ Omp pub 597 06-16-2004 9:04 Omp.pub 0MPHOS~1 PUB 218 06-16-2004 9:04 Omphostrsa.pub stp1 0 06-16-2004 9:04 stp1 vip pub 602 06-16-2004 14:14 vip.pub 5mp pub 597 06-16-2004 9:14 5mp.pub 5MPHOS~1 PUB 218 06-16-2004 9:14 5mphostrsa.stp2 0 06-16-2004 9:14 stp2 stp2 VIPHOS~1 PUB 223 06-16-2004 14:15 viphostrsa.pub stp3 0 06-16-2004 14:15 stp3 861 06-16-2004 14:15 fprnt.VIP fprnt VIP 667 06-16-2004 fprnt OMP 9:19 fprnt.0MP 9:19 stp4 0 06-16-2004 stp4 9:20 stp0 06-16-2004 stp0 65 06-16-2004 9:20 fprnt.5MP 5MP fprnt 666 06-16-2004 9:20 stp5 stp5

- 22. Remove keyfile diskette and label it, date it, and initial it. Store it in a locked, safe place in accordance with the DOC password security policy. Type the following commands to close the 5MP UNIX Shell:
- 23. exit < Enter > To exit root user.
- 24. exit < Enter > To exit 5MP.
- 25. exit **<**Enter> To close shell.
- 26. Click on the 0MP UNIX Shell and enter the following commands to close it:
- 27. exit < Enter > To exit root user.
- 28. exit < Enter > To close shell.
- 29. Press **[CTRL]** to return the video display, mouse, and keyboard to the VIP. Enter the following commands to close the VIP UNIX shell:
- 30. exit <Enter> To exit root user.

#### NOTE: 14 \*\*\* FOR USERS OF the VIP REMOTE SFTP ONLY \*\*\*

All the VIP Remote FTP users must convert to a standard configuration supported by CRS B10/VIPB3.1. The VIP B3.1 requires sites to dump the VIP messages to the LDAD Server (LS1), and then either push them out to the external system or have the external system retrieve them from LS1. This section provides step-by-step instructions to accomplish this. However, it will be each site's responsibility to move the messages from LS1 to the external system.

Users of the VIP Remote SFTP (formerly Remote SFTP) capability must copy the **vip.pub** key on the keyfile diskette from the previous steps to the LS1.

The operator should coordinate this step with the LS1 System Administrator.

- 1. Create **crs** user account on the LS1.
- Log on the LS1 as crs.
- 3. Verify the /home.crs/.ssh directory exists with protection of 700.
- 4. If the directory does not exist, create one with the following instructions:

mkdir /home/crs/.ssh chmod 700 /home/crs/.ssh

- 5. Verify the authorized keys file exists on /home/crs/.ssh.
- 6. If the **authorized keys** file exists, remove it with the following instructions:

rm /home/crs/.ssh/authorized keys

- 7. Create new **authorized\_keys** file by copying the **vip.pub** file from the keyfile diskette to **/home/crs/.ssh/authorized\_keys** on LS1. No specific instructions for doing this are included; each site may determine the most appropriate manner to accomplish this task.
- 8. Create an entry for the LDAD server in the VIP routing table by doing the following at the VIP:

#### NOTE:

14 (cont.)

Click the KDE Gear

Click System

Click Network Configuration

Select Active etho device

Click Edit

Click route tab and click on add

Fill out the Address, Subnet Mask, and Gateway IP Address boxes. The Address is the <u>LS1 IP Address</u>. The **Subnet Mask** is <u>255.255.255.255</u>. The **Gateway IP Address** is the site's Gateway IP Address.

Click on OK twice, Apply, and Close.

9. Restart the network by doing the following at the VIP:

Click on the Konsole icon (fourth from the lower left in the display).

Type **su** - and when prompted, enter the root password.

Type **service network restart**. The system will return several network interface messages.

Type **exit** to exit the root user.

10. Additionally, the operator must approve the remote fingerprint of the target system by doing the following at the VIP:

Type **sftp xxx.xxx.xxx** where xxx.xxx.xxx is the LS1 IP address

The operator will be asked "Is this host key ok?"

The operator should answer **yes**. This will add the LS1 host to the **known\_hosts** file on the VIP.

Type **exit** to close the shell.

Logons and transfers into VIP from outside of CRS are not authorized to be added to the VIP computer. Likewise, outside generated public keys are **NOT** to be added to the VIP computer.

#### PART 10 - CRS AND VIP APPLICATION STARTUP AND VERIFICATION

#### 10.1 Starting up the CRS Application

- 1. To start the CRS Build 10.0 Application, click the **System** menu and click **Start System**. The system displays the **Start CRS** dialogue box, which prompts the user for a response.
- Click **OK** to begin the startup sequence. The CRS System is started dialog box displays. Click **Close**.
- 3. If the *Status* window is not displayed, open it using the *System* pull-down menu. Click the **System Status** menu selection.
- 4. If the *Alert Monitor* window is not displayed, open it using the *System* pull-down menu. Click the **Alert Monitor** menu selection.
- 5. In the *Status* window, verify the proper start of the CRS application. If the system does not start, notify the CRS Help Desk.
- 6. Verify the proper and normal operation of the system. The database has not changed, so all weather messages there were previously broadcasting will continue to broadcast, unless they have expired.

#### 10.2 Starting Up the VIP Application

- 1. To run the VIP application, click **Start** on the main *VIP* menu.
- 2. At the CRS Status window on the CRS Master Console, verify that the VIP icon is a green arrow pointing up.

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# Attachment B EMRS Report Sample

#### Attachment B - EMRS Report Sample

